

Comerica Bank®



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Comerica Bank: Delivering Modern, Customer-Centric Applications in the Cloud

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Comerica Bank

Comerica Bank

Est. 1849



Honored by more than **10** top organizations for employer Of choice for minorities and innovation

160 YEARS of
RELATIONSHIP BANKING

OVER **150** applications migrated to the cloud to provide more secure, cost effective and efficient data storage 

 **122K** cases

27% of Comerica uses Pega

FINANCIAL  savings
Reduced Hardware and system footprint.

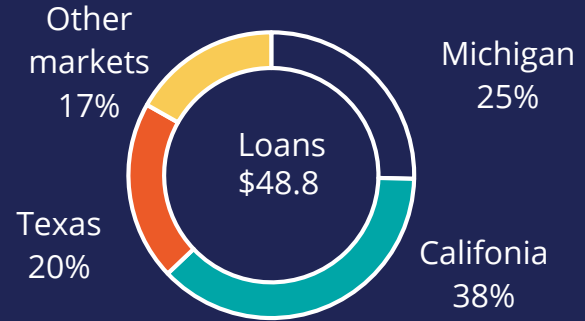
#1 Commercial Lender

Based on % of total assets and % of total loans

Raise your expectations

Diverse Geography

(\$ in billions; 4Q18 Average)



Wealth | Business | Retail



7 Business Units

Expectations for this session

Objectives

- Comerica Vision
- Comerica Pega Journey
- Share insights around understanding what it takes to get Pega from zero to adopted as a platform of choice
- Discuss Organizational and user readiness considerations
- Provide guidance from experience on how Comerica built and are building customer-centric applications on the Pega platform
- Review challenges and how we overcame them
- Key Takeaways

At the center of Comerica's technology transformation is Tech Vision 2020...

Breaking the mold by transforming the technology assets to become the leading **digital provider of choice** for internal partners and external customers, leading to **customer delight**, while ensuring effective risk management and raising customers' willingness to pay.



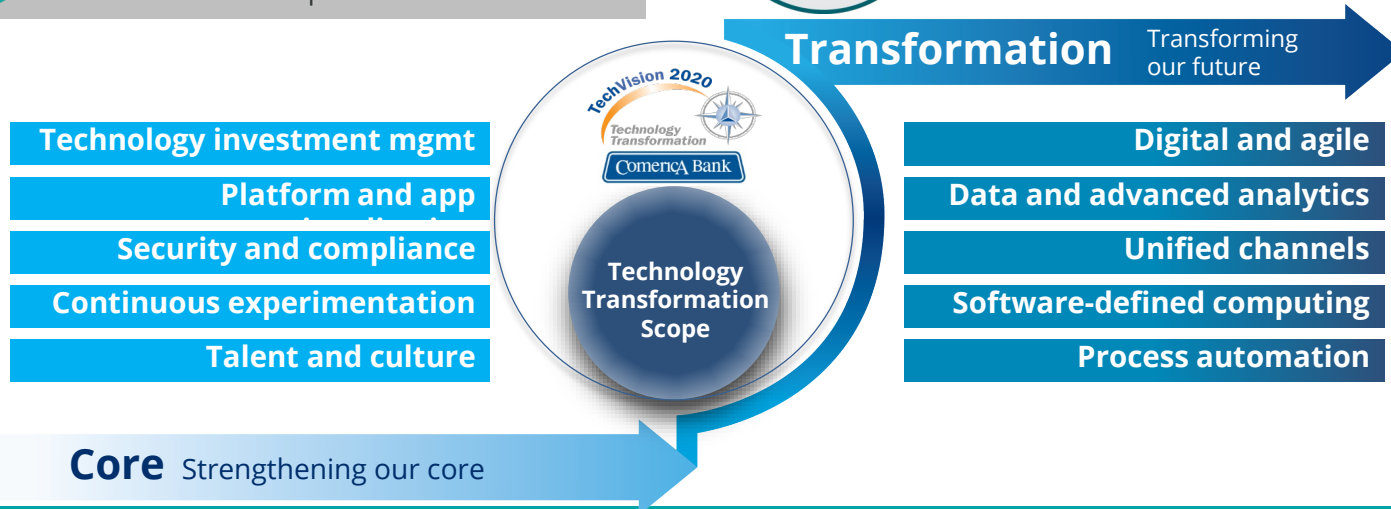
Key Performance Indicators:

- High net promoter score
- On time and on budget
- Right the first time for the "minimally viable product"
- Secure and compliant



Outcomes:

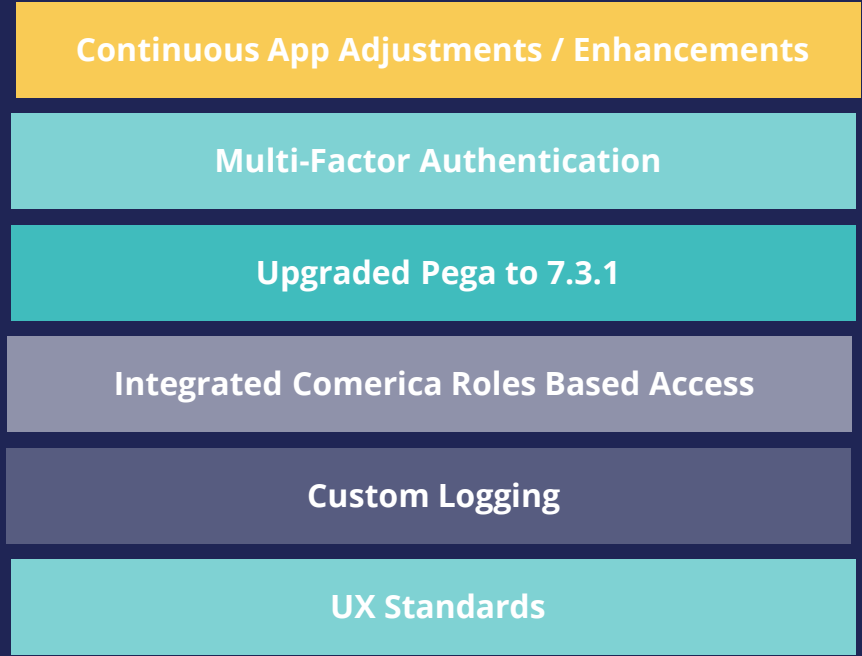
- Revenue growth and commercialization
- Quicker time to market
- Cost optimization
- Customer service and loyalty



Comerica Journey with Pega began in December 2017



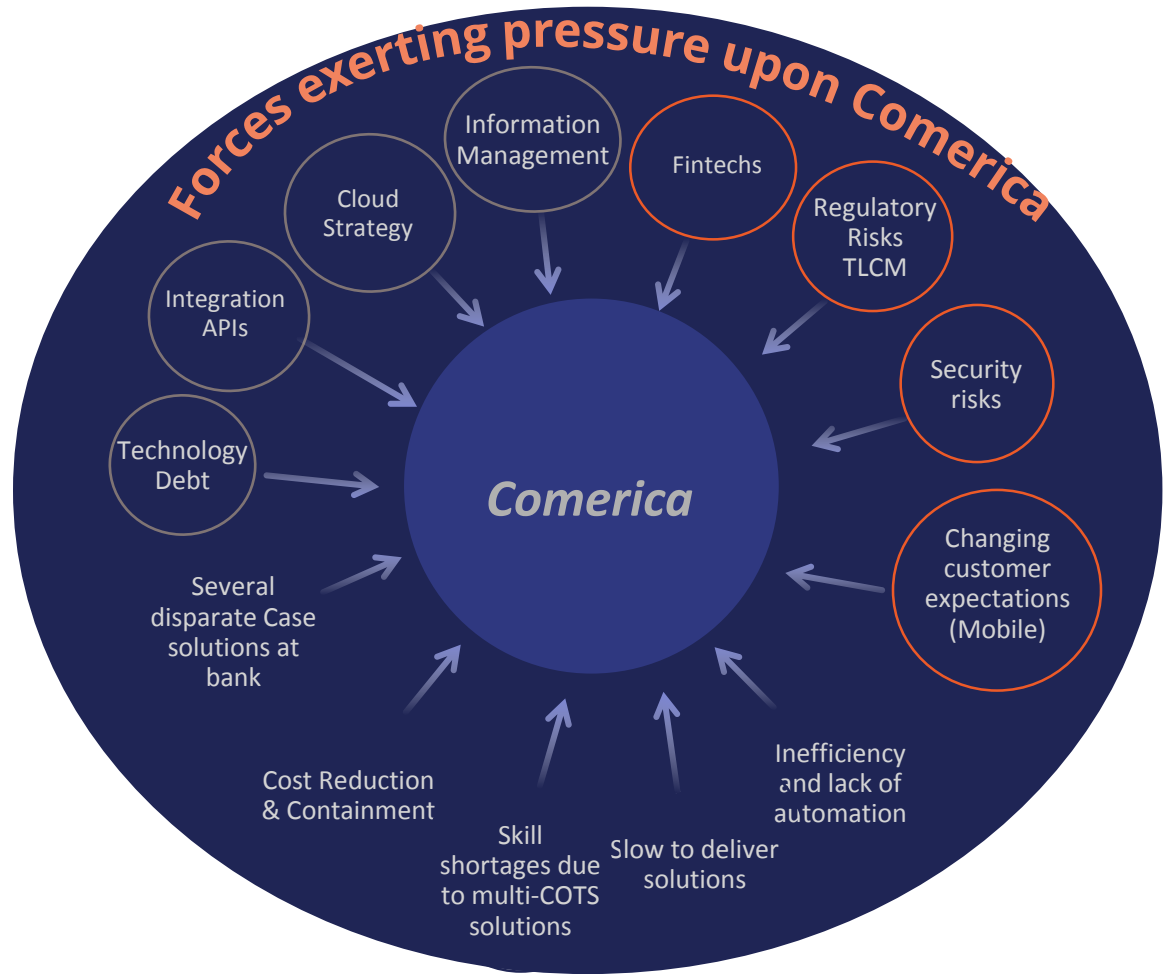
In that same timeframe we implemented...



Why the need to move so fast?

Learning and innovation go hand in hand. The arrogance of success is to think that what you did yesterday will be sufficient for tomorrow.

William Pollard



Key Enablers for Pega success...



Embrace Cloud



Standards and
Architectural
Agility



Enterprise
Platform
Approach



Integrations
APIs



Secure,
Compliant
Applications



Client
Collaboration
2IB (SI)

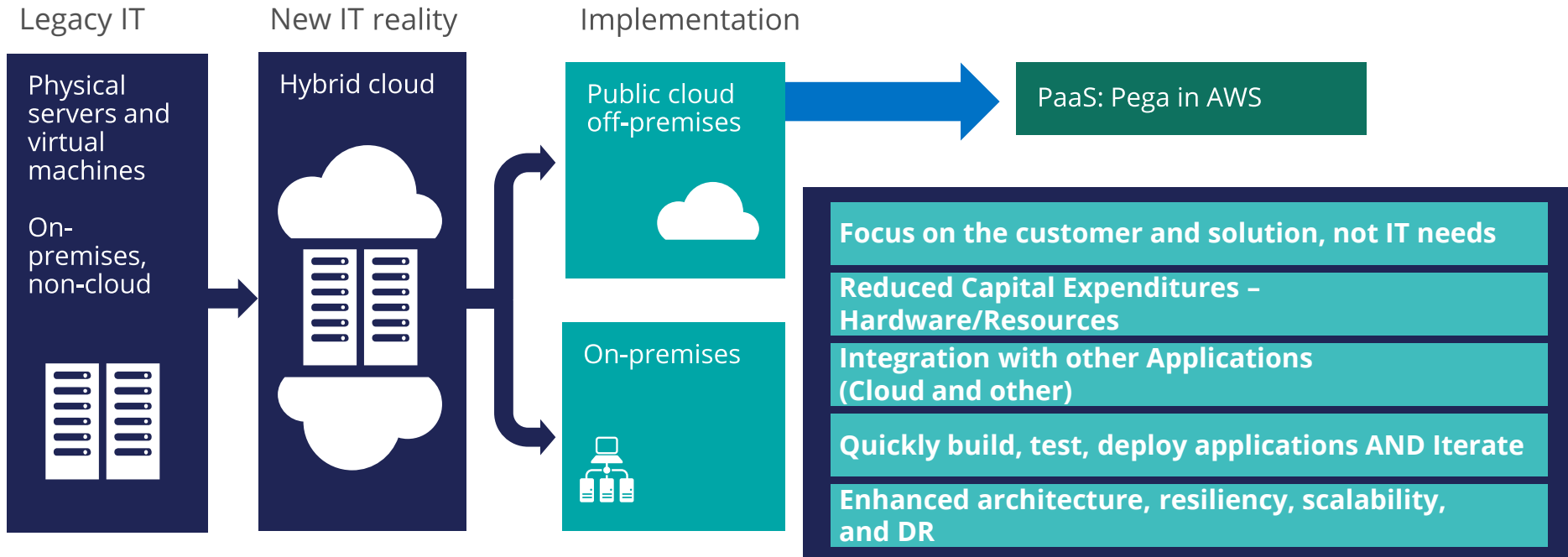


Digital Process
Automation

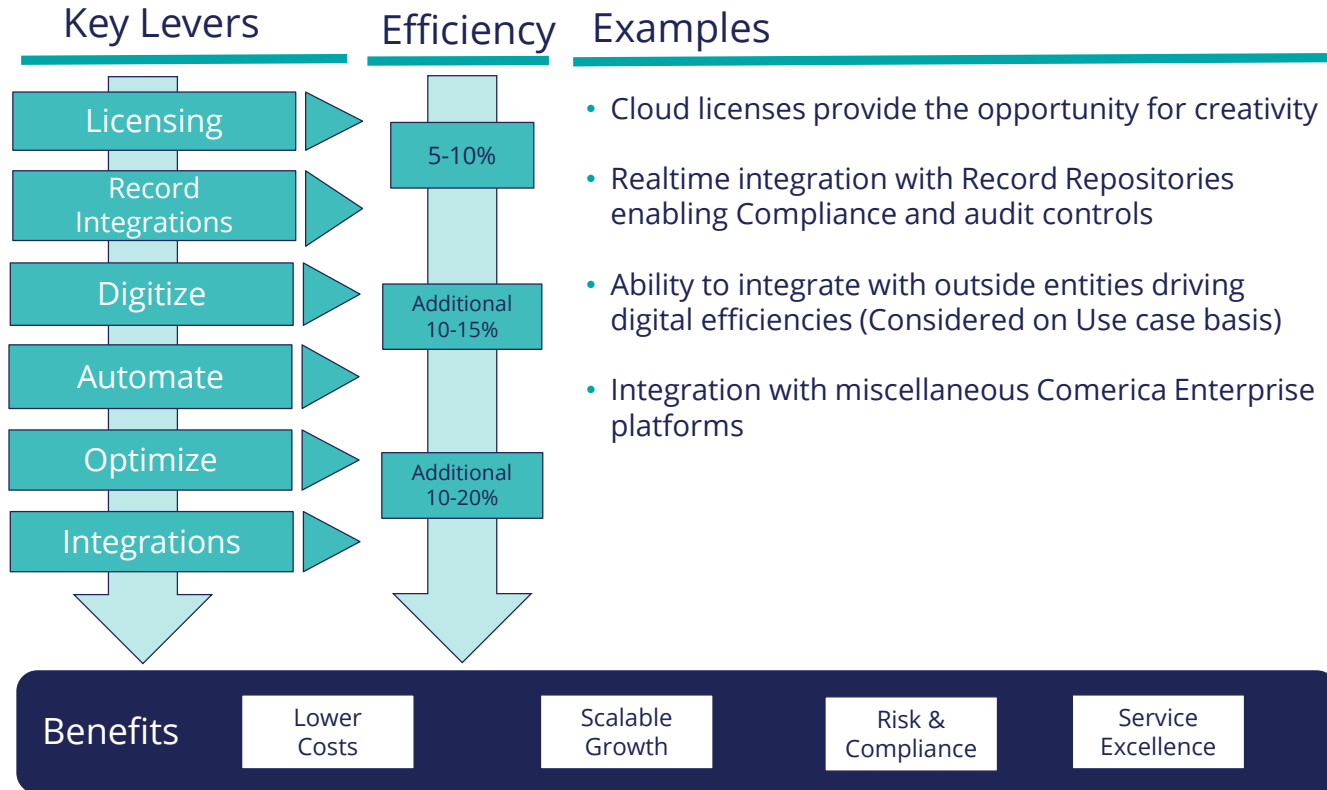


Corporate
Sustainability
Goals

Comerica had to first align & evaluate Pega cloud with our “Cloud First” strategy

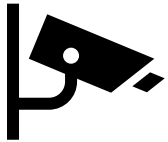


We then quantified the Pega Platform Benefits



Our customer data is of paramount importance so we ensure that we Secure and Protect it!

Risk and Controls



- Monitoring
- Logging Events
- Cybersecurity



- Multi-Factor Authentication
- Roles based Access



- Securing the cloud
- Secure the data of our customers
- Secure third parties

Protect the bank and our customers

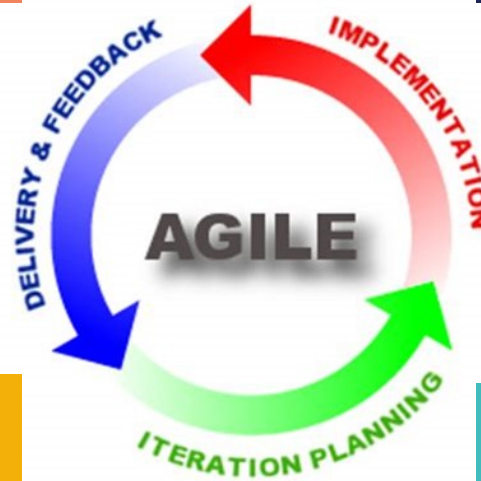
For application development we applied an all Agile Methodology to our application creation



Sprints - Iterations



Minimal Viable Product

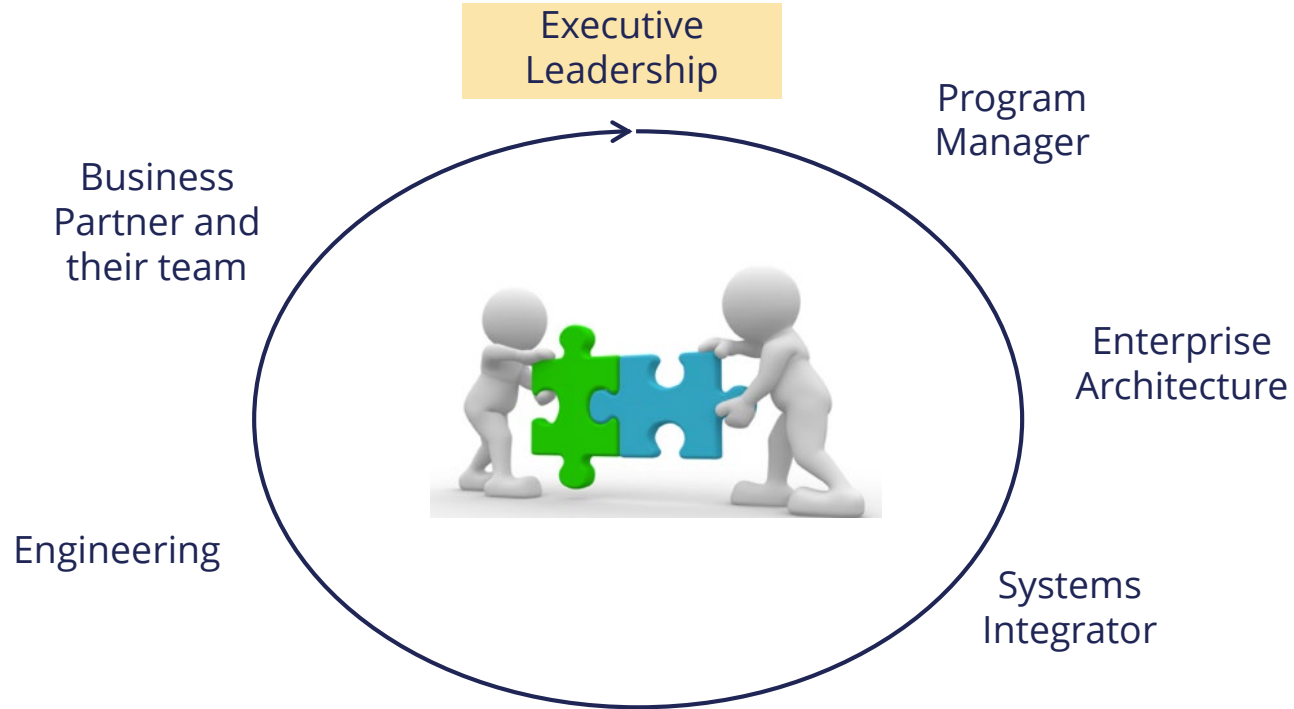


Shifting Mindsets
Digital Experience

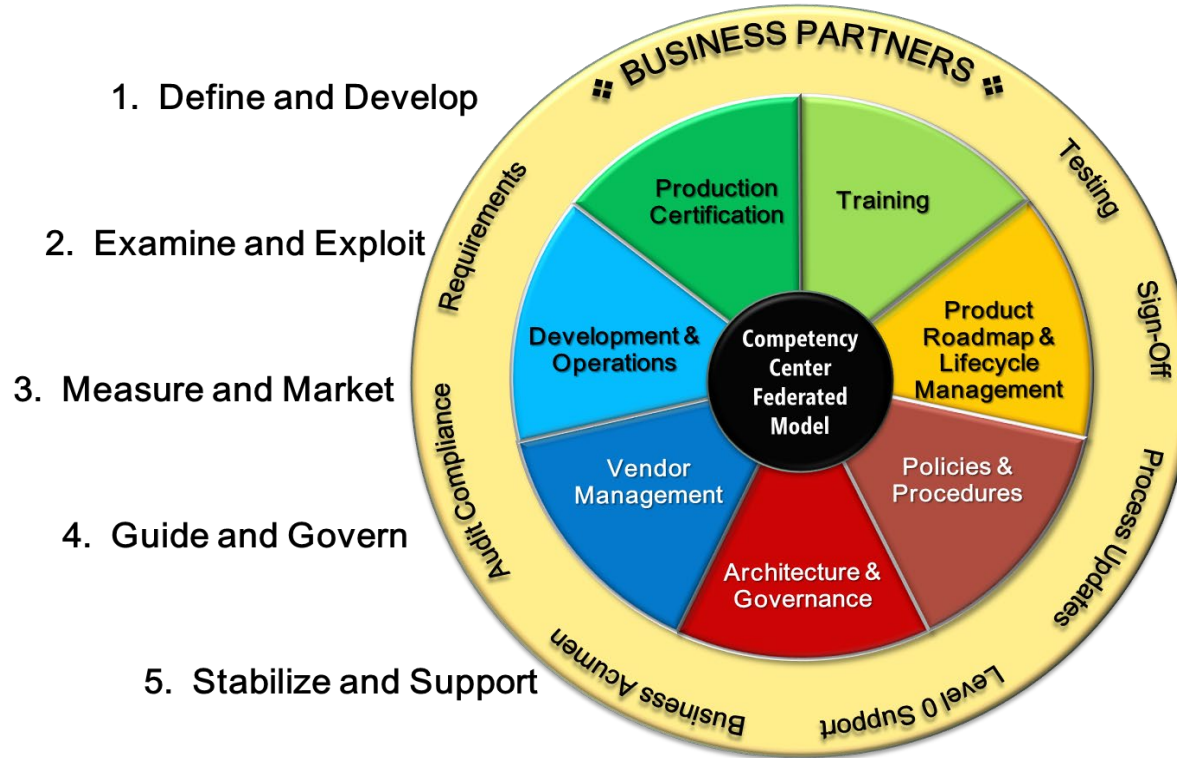


Developers and business
Working together

Most importantly, at Comerica, we implemented a collaborative engagement (2-in-a-box) model!

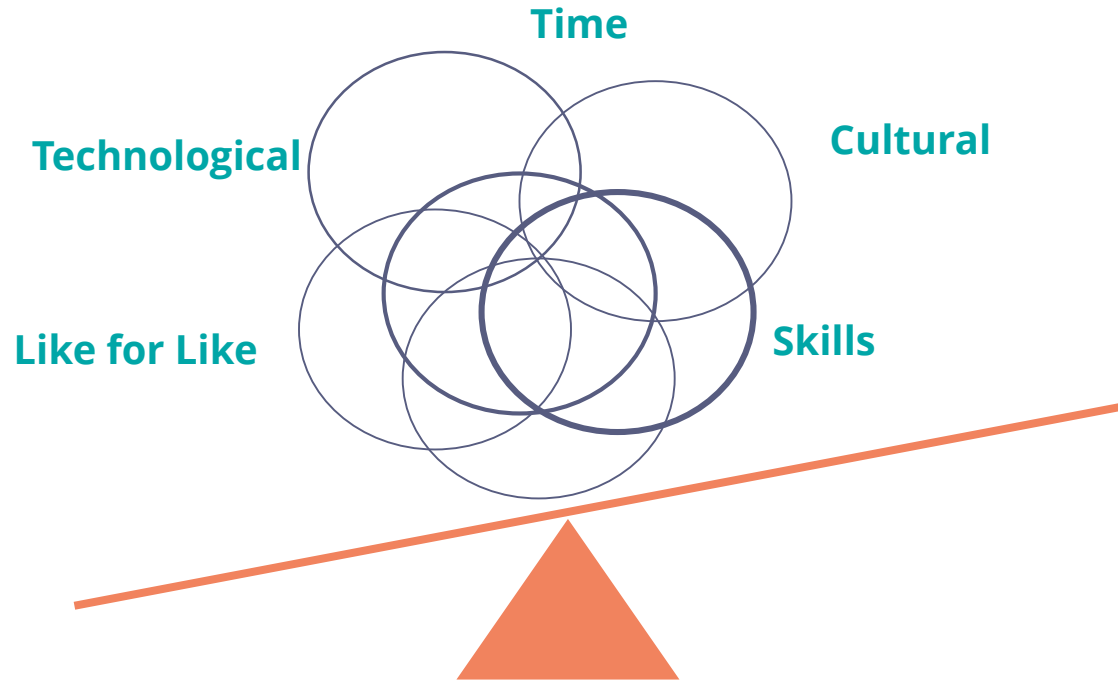


Comerica's Digital Process Automation Competency Center ensures governance of apps built on Pega



In this journey we did encounter challenges

(How we overcame them)



Technological

- Moving from on-premise to the cloud
 - Understanding how Pega fits in the AWS cloud
 - Environments (Dev, Staging, Prod)
 - Connectivity
 - Security
 - Disaster Recovery
 - Resiliency
- Developer model
 - Browser based
 - Disparate teams, vendors, employees
- Code reuse layer and how that possible affects multiple applications on the platform



There is no magic in getting past understanding the cloud. Understand Amazon and how Pega carves out its niche.

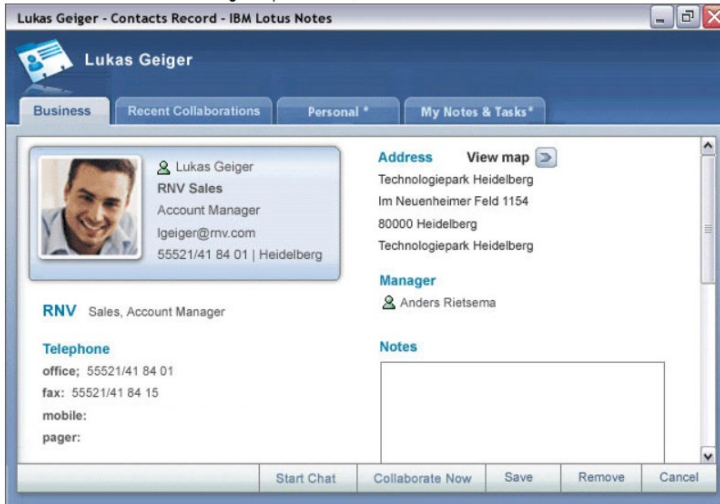


Understand who your development teams vs support teams. Come up with a strong governance model on who is working where and when. This is a strong potential for teams to touch the wrong code.

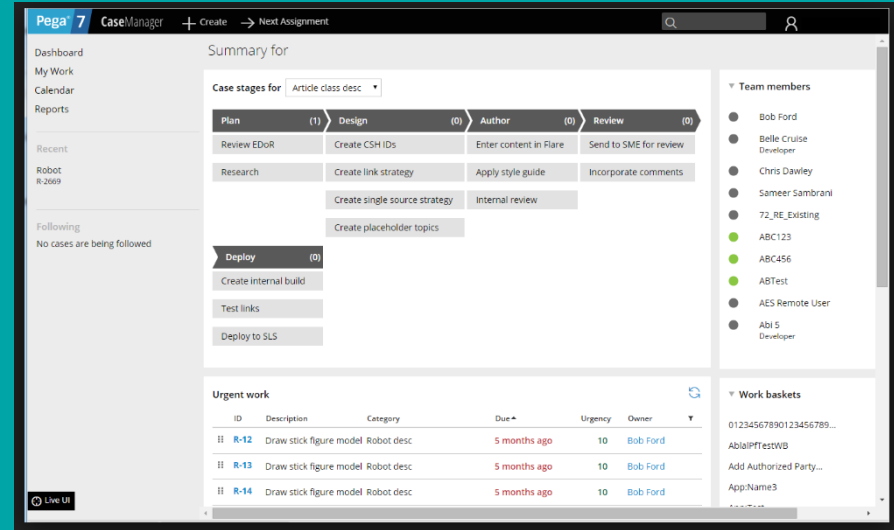


Code reuse is one of the platform advantages. Ensure this is being architected properly so as not to affect other applications on the platform.

The promise and challenges with “Like for Like”



- Legacy Systems
- Outdated Interfaces
- Outdated Architecture
- PC Based environments



- Responsive Design
- Web-based development
- APIs / Integration

NOT ALWAYS APPLE TO APPLES
NOR SHOULD IT BE

Skills

- Pega is not the easiest skill for developers to come up to speed.



- Pega works with companies to integrate the Pega learning curriculum in alignment with yours. This is what Comerica did.
- There are many on-demand lessons at <https://academy.pega.com>
- Other forms of training are available, work with your account representative.

Cultural: Processes & People

- People don't change overnight. Resistance is normal but they have the best interest of your customers in mind.
- Shadow IT is prominent.
- Pega and moving to the cloud is more than a technical change. You have to educate your co-workers on the benefits.
- People and change are not one size. Be willing to adapt and approach challenges creatively but collaboratively.



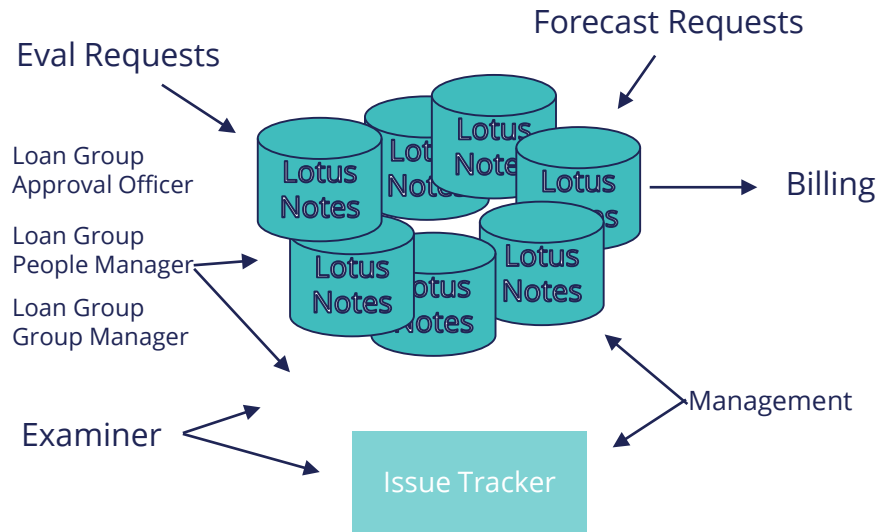
**BUILD A COE CENTERED
ON PEOPLE, PROCESS,
AND TECHNOLOGY**

COMERICA IMPLEMENTED IN JULY 2018

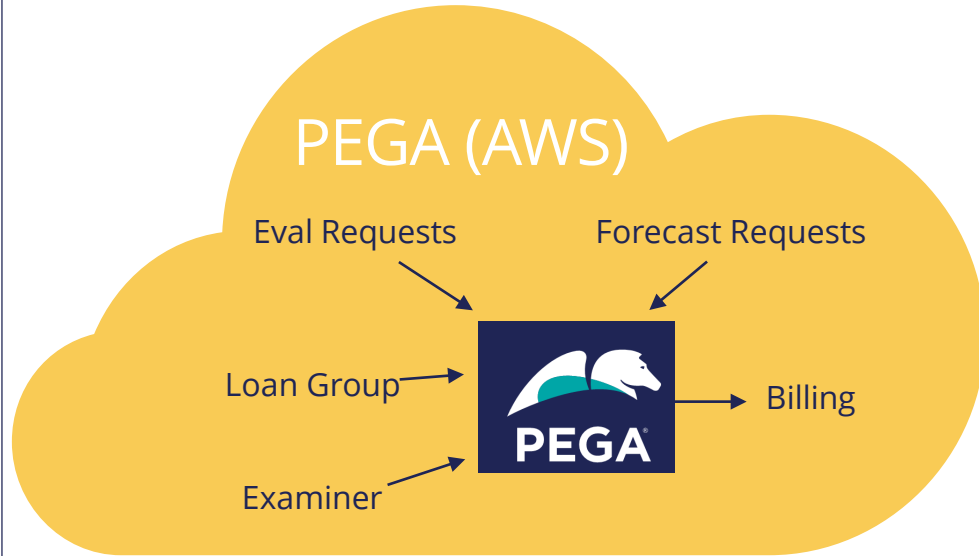
User Story: Example of how we used Pega for Digital Process Automation

Commercial Evaluation Request Management

Existing Process – per Market (7)



New Process – National



Commercial Evaluation Request Management Optimizations

- Single Integrated Workflow
- Consolidated system for all markets
- Critical issue tracking integration
- Reporting Automation
- Enhanced search
- Custom dashboards
- National view for leadership
- Reduced technical debt
 - Lotus notes
 - 7 separate databases

Lessons learned



Build a standard communications structure



Define a communications framework (Cadence, 2IB, Executives)



Create the value proposition



Educate leadership, stakeholders, clients



Work from the mindset of security in all facets of the implementation



Utilize multiple channels to reach audience



Target your messaging



Measure deployment and communication satisfaction



Prepare and Lead change

Summary

Key Takeaways

- Cloud and Digital Process Automation (DPA) go hand in hand and should not be looked at separately
- Organizational Change Management is crucial for the success of transformation programs.
- Pega, Cloud, DPA are not just technology play. Technology and your business partners readiness, planning, and implementation have to happen in collaboration



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